

Testing Accreditation #: 77802

Test Certificate #: 107315-001

Client Name, Sample Details
Therapeutic Horticulture Consultants, Inc.
 Springfield, MO 65807
Sample: CBD Isolate
Product Type: Infused Product
Method: FE04 HPLC1100-1

Test Conditions
Scale: XS205-MI2
Temp: 22.7 °C
Baro Pressure: 973.6 hPa
Analyst: MEH
Technician: MEH

Sample ID#: 107315
Process Date: 06/04/2018
Serving Size (g): 1
Date Received: 06/05/2018
Test Date: 06/05/2018
Valid Through: 06/05/2019



Test Compounds	CBDA	CBD	CBN	THC	THCA	TOTAL	CBD Act.	THC Act.
Amount	N/D	961.1 mg/g	N/D	N/D	N/D	961.1	100%	N/A
Min. Value	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	0.1 mg/g	-	-	-
Amount per Serving~	N/D	961.1 mg/srv	N/D	N/D	N/D	961.1 mg/srv	Serving Size~ (g):	1.00 g
Uncertainty†	±5% RSD	±5% RSD	±5% RSD	±5% RSD	±5% RSD	-	-	-

†Uncertainty measurement is for the test procedure and the instrument used; and is calculated in accordance with the ISO "Guide of Uncertainty in Measurement" (GUM) Test Results and uncertainty are only representative of the sample submit to our laboratory. Uncertainty does not account for any uncertainty in the sampling. The measurement of uncertainty is the expanded uncertainty and is an estimate of uncertainty calculated with normal distribution and a coverage factor of 2 (K=2) to approximate a 95% confidence level. This certificate shall not be reproduced except in full, without written approval of Iron Laboratories, LLC.

%RSD = Relative Standard Deviation; Min. Value = Minimum Detectable Amount, CFU = Colony Forming Units

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Mackenzie E. Hyman, Quality Manager



Andrea C. Ruppel, Lab Manager

Iron Laboratories, LLC is an ISO/IEC 17025:2005 Testing Laboratory laboratory, accredited by (PJLA) Perry Johnson Laboratory Accreditation, Certificate No. 77802

Tested by Iron Laboratories Michigan, 1825 E. West Maple Walled Lake, MI 48390

Client Name, Sample Details
Therapeutic Horticulture Consultants, Inc.
 Springfield, MO 65807
Sample: CBD Isolate
Product Type: Infused Product
Method: FE44 GC5890-2

Test Conditions
Scale: XS205-MI2
Temp: 22.3 °C
Baro Pressure: 981.8 hPa
Analyst: MEH
Technician: MEH

Sample ID#: 107315
Process Date: 06/04/2018
Serving Size (g): 1
Date Received: 06/05/2018



Compound	MRL (µg/g)	LOD (µg/g)	Status (µg/g)	Compound	MRL (µg/g)	LOD (µg/g)	Status (µg/g)
1,2-Dimethoxyethane	100	5	Pass/<LOD	1,4-dioxane	380	200	Pass/<LOD
1-Butanol	5,000	100	Pass/<LOD	1-Pentanol	5,000	100	Pass/<LOD
1-Propanol	5,000	100	Pass/<LOD	2,2-Dimethylpropane (Neopentane)	5,000	100	Pass/<LOD
2,2-Dimethylbutane (Hexanes)	290	100	Pass/<LOD	2,3-Dimethylbutane (Hexanes)	290	100	Not Tested
2-Butanol	5,000	100	Pass/<LOD	2-Butanone (MEK)	5,000	50	Pass/<LOD
2-Ethoxyethanol	160	40	Pass/<LOD	2-Methylbutane (Isopentane)	5,000	50	Pass/<LOD
2-Methylpentane (Hexanes)	290	50	Pass/<LOD	2-Methylpropane (Isobutane)	5,000	50	Pass/<LOD
2-propanol (Isopropyl Alcohol)	5,000	50	Pass/<LOD	2-Propanone (Acetone)	5,000	50	Pass/<LOD
3-Methylpentane (Hexanes)	290	50	Pass/<LOD	Acetonitrile	410	100	Pass/<LOD
Benzene	2	1	Pass/<LOD	Butane	5,000	50	Pass/<LOD
Cumene	70	35	Pass/<LOD	Cyclohexane	3,880	1,000	Pass/<LOD
Dichloromethane	600	150	Pass/<LOD	Dimethylsulfoxide (DMSO)	5,000	500	Pass/<LOD
Ethanol	5,000	500	Pass/<LOD	Ethyl acetate	5,000	50	Pass/<LOD
Ethyl ether	5,000	500	Pass/<LOD	Ethylene glycol	620	310	Pass/<LOD
Ethylene oxide	50	50	Pass/<LOD	Heptane	5,000	50	Pass/<LOD
Hexane	290	50	Pass/<LOD	Isopropyl acetate	5,000	50	Pass/<LOD
Methanol	3,000	500	Pass/<LOD	N,N-Dimethylacetamide	1,090	273	Pass/<LOD
N,N-Dimethylformamide (DMF)	880	500	Pass/<LOD	Pentane	5,000	50	Pass/201
Propane	5,000	50	Pass/<LOD	Pyridine	200	10	Pass/<LOD
Sulfolane	200	160	Pass/<LOD	Tetrahydrofuran (THF)	720	200	Pass/<LOD
Toluene	890	50	Pass/<LOD	Xylenes*	2,170	50	Pass/<LOD

* Xylenes are reported as the sum of o-xylene, m-xylene, p-xylene, and ethylbenzene
 MRL - Maximum Residue Limit; LOD - Limit of Detection

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Mono Terpenes

Weight Percentage Dry Matter (wt/wt%)

α-Pinene:	N/D	β-Ocimene:	N/D
Camphene:	N/D	Eucalyptol (1,8-Cineol):	N/D
Sabinene:	N/D	γ-Terpinene:	N/D
Myrcene:	N/D	α-Terpinolene:	N/D
β-Pinene:	N/D	Linalool:	N/D
Δ3-Carene:	N/D	Fenchone:	N/D
α-Terpinene:	N/D	Fenchol:	0.001 %
Ocimene:	N/D	Isopulegol:	N/D
Limonene:	N/D	Geraniol:	N/D
4-Cymene:	N/D		

Sequi Terpenes

Weight Percentage Dry Matter (wt/wt%)

β-Caryophyllene:	0.006 %
α-Humulene:	0.008 %
Nerolidol 1:	N/D
Nerolidol 2:	N/D
Guaiol:	N/D
Caryophyllene Oxide:	N/D
α-Bisabolol:	N/D

Other Terpenes

N/D

Total: 0.015%

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